

β8

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 61-198571

(43)Date of publication of application : 02.09.1986

H01M 8/24
H01M 8/04

(71)Applicant : FUJI ELECTRIC CO LTD

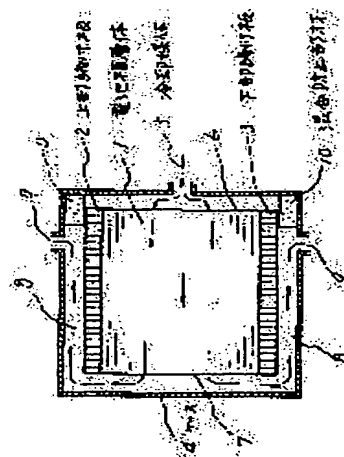
(72)Inventor : SUGIYAMA TOSHIHIRO
IZUMIKAWA NORIO
OUCHI TAKASHI

(54) FUEL CELL

(57)Abstract:

PURPOSE: To increase temperature of unit cells near fastening plates to decrease temperature distribution in a stacked direction of a fuel cell stack by heating a fastening plate with cooling medium whose temperature is increased by cooling of a cell.

CONSTITUTION: A fuel cell stack 1 which is fastened with upper and lower fastening plates 2, 3 is accommodated in a case 4. Air serving as a cooling medium 5 is supplied to one side 6 of the fuel cell stack 1 from the outside, and passes through the fuel cell stack 1. The cooling medium whose temperature is increased by taking heat from the fuel cell stack 1 is discharged to the other side 7 of the fuel cell stack 1. The cooling medium is divided into the upper stream and the lower stream inside the case 4 and flows through spaces 8 formed by the case and the upper fastening plate 2 and the case 4 and the lower fastening plate 3 respectively, then exhausted from exhausting parts 9. Thereby heat insulating effect in the fastening part is increased, and heat radiation from the fastening plate is reduced. The temperature distribution in a stacked direction of fuel cell stack is decreased.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision]

BEST AVAILABLE COPY

of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

BEST AVAILABLE COPY